ABSTRACT

In a system where a plurality of mobile terminals shares a data of the server, upon issuing an update request data of server from the mobile terminals, without depending on the stability of the communication method used by the mobile terminals, a fair data updating becomes possible which only relies on an issuing order of the update request. In the present system, the clock module is provided to all the mobile terminals and the server having a synchronized time. The mobile terminal adds the update request issuing time obtained from the timing module to the update request data upon issuing the update request data, and the update request data is repeatedly sent until the server receives it. During the repeated transmission, an issuing time attached to the update request is identical to the original issuing time, and the server processes the data update request received within the update request reception period in an order of the issuing time.

世界知的所有権機関
国際事務局

PCT

特許協力条約に基づいて公開された国際出願

09/284136

(51) 国際特許分類6 G06F 15/21, 12/00	A1	(11) 国際公開番号 WO99/26165 (43) 国際公開日 1999年5月27日(27.05.99)

(21) 国際出願番号 PCT/JP98/02550
(22) 国際出願日 1998年6月10日(10.06.98)
(30) 優先権データ
特願平9/313073 1997年11月14日(14.11.97) JP

(71) 出願人（米国を除くすべての指定国について）
三菱電機株式会社
(MITSUBISHI DENKI KABUSHIKI KAISHA)[JP/JP]
〒100-8310 東京都千代田区丸の内二丁目2番3号
Tokyo, (JP)
(72) 発明者；および
(75) 発明者／出願人（米国についてのみ）
坂倉隆史(SAKAKURA, Takashi)[JP/JP]
〒100-8310 東京都千代田区丸の内二丁目2番3号
三菱電機株式会社内 Tokyo, (JP)
(74) 代理人
弁理士 溝井章司(MIZOI, Shoji)
〒247-0056 神奈川県鎌倉市大船二丁目17番10号
NTA大船ビル3F Kanagawa, (JP)

(81) 指定国 JP, US, 欧州特許 (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

添付公開書類
国際調査報告書

(54)Title: DATA UPDATING SCHEME AND DATA UPDATING METHOD

(54)発明の名称 データ更新方式及びデータ更新方法

(57) Abstract

In a system in which a plurality of portable terminals (101-106) share data of the server (110), when each of the portable terminals issues a data update request to the server (110), the data updating scheme and method enables fair data updating that depends only on the order in which the updating requests have been issued, regardless of the stability of a communication method that each portable terminal uses. Each of the portable terminals (101-106) and the server (110) in the system has a time measuring function module for measuring synchronized time. When a portable terminal (101) issues a data update request, the portable terminal (101) repetitively transmits an update request to which the time where the data update request is issued and which is measured by the time measuring function module is added until the data update request is received by the server (110). During this repetitive transmission, the update request issuing time added is kept unchanged as it is. The server (110) processes the data update requests, received during the update request acceptance period, in order of request issuing time.